

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**August  
2013**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project (SWP) has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Contractors, public agencies, consultants, and others with the daily and monthly status of SWP's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**MARK COWIN, Director**

Department of Water Resources  
**LAURA KING MOON, Chief Deputy Director**

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The organization shown above represents staff and positions relevant to this report as of month of publication, January 2015. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities, actions, and conditions affected State Water Project (SWP) operations during August 2013:

Statewide precipitation was about 80 percent of average for water year 2012 – 2013 through August 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources (DWR) in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the State's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. August snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for water year 2012 – 2013 was 11.6 maf, 65 percent of average. Statewide runoff for water year 2012 – 2013 was 60 percent of average.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of August was about 2.70 maf compared to 3.07 maf at this time in 2012. On August 31, end-of-month storage at Lake Oroville was about 1.78 maf, as compared to 2.22 maf at this time in 2012. The State share of San Luis Reservoir's end-of-month storage was about 323 taf, as compared with 402 taf at this time in 2012. The combined storage in SWP's southern reservoirs was about 593 taf, compared with about 437 taf at this time in 2012.

The cumulative SWP water deliveries to date through August were about 2.14 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2012 were 2.96 maf.

By mutual agreement between the U.S. Bureau of Reclamation (USBR) and DWR in accordance with Article 6(h) of the Coordinated Operation Agreement (COA), conditions remained "Balanced" with accounting throughout August. The end-of-month USBR COA balance was 108,333 cfs in favor of USBR.

There were eight measurable earthquakes within the vicinity of the SWP in August; however, no facilities were found to meet inspection criteria.

During the month of August, there was no fish salvage reported.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jul 31	4,999.56	20,356									
1	4,999.48	20,286	-70	20	0	0	0	10	30	-5	
2	4,999.43	20,242	-44	20	0	0	0	10	30	8	
3	4,999.38	20,199	-43	20	0	0	0	10	30	8	
4	4,999.32	20,146	-53	20	0	0	0	10	30	3	
5	4,999.26	20,094	-52	20	0	0	0	10	30	4	
6	4,999.20	20,042	-52	20	0	0	0	10	30	4	
7	4,999.15	19,998	-44	20	0	0	0	10	30	8	
8	4,999.10	19,955	-43	20	0	0	0	10	30	8	
9	4,999.05	19,912	-43	20	0	0	0	10	30	8	
10	4,998.81	19,704	-208	20	0	0	0	10	30	-75	
11	4,998.76	19,661	-43	20	0	0	0	10	30	8	
12	4,998.70	19,610	-51	20	0	0	0	10	30	4	
13	4,998.65	19,567	-43	20	0	0	0	10	30	8	
14	4,998.59	19,515	-52	20	0	0	0	10	30	4	
15	4,998.53	19,464	-51	20	0	0	0	10	30	4	
16	4,998.48	19,421	-43	20	0	0	0	10	30	8	
17	4,998.42	19,370	-51	20	0	0	0	10	30	4	
18	4,998.37	19,327	-43	20	0	0	0	10	30	8	
19	4,998.32	19,285	-42	20	0	0	0	10	30	9	
20	4,998.27	19,242	-43	20	0	0	0	10	30	8	
21	4,998.23	19,208	-34	20	0	0	0	10	30	13	
22	4,998.19	19,175	-33	20	0	0	0	10	30	13	
23	4,998.14	19,132	-43	20	0	0	0	10	30	8	
24	4,998.09	19,090	-42	20	0	0	0	10	30	9	
25	4,998.04	19,048	-42	20	0	0	0	10	30	9	
26	4,998.00	19,041	-7	20	0	0	0	9	29	25	
27	4,997.95	18,972	-69	20	0	0	0	9	29	-6	
28	4,997.90	18,930	-42	20	0	0	0	9	29	8	
29	4,997.84	18,879	-51	20	0	0	0	8	28	2	
30	4,997.74	18,795	-84	20	0	0	0	8	28	-14	
31	4,997.73	18,787	-8	20	0	0	0	8	28	24	
Total cfs-days				620	0	0	0	301	921	130	
Total ac-ft				-1,569	1,230	0	0	598	1,828	259	

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Jul 31	5,569.64	30,973									
1	5,569.56	30,885	-88	1	13	0	0	15	29	-15	
2	5,569.52	30,842	-43	1	13	0	0	15	29	7	
3	5,569.48	30,798	-44	1	13	0	0	15	29	7	
4	5,569.42	30,732	-66	1	13	0	0	15	29	-4	
5	5,569.35	30,656	-76	1	13	0	0	15	29	-9	
6	5,536.31	30,613	-43	2	11	0	0	15	28	6	
7	5,569.23	30,526	-87	2	11	0	0	15	28	-16	
8	5,569.20	30,493	-33	1	16	0	0	15	32	15	
9	5,569.16	30,450	-43	1	16	0	0	15	32	10	
10	5,569.11	30,396	-54	1	16	0	0	15	32	5	
11	5,569.06	30,342	-54	1	16	0	0	15	32	5	
12	5,568.95	30,223	-119	2	44	0	0	15	61	1	
13	5,568.83	30,094	-129	2	44	0	0	15	61	-4	
14	5,568.73	29,987	-107	2	44	0	0	15	61	7	
15	5,568.63	29,880	-107	2	34	0	0	15	51	-3	
16	5,568.56	29,805	-75	2	27	0	0	10	39	1	
17	5,568.49	29,730	-75	2	27	0	0	10	39	1	
18	5,568.40	29,635	-95	2	27	0	0	10	39	-9	
19	5,568.33	29,560	-75	2	35	0	0	10	47	9	
20	5,568.25	29,476	-84	2	25	0	0	10	37	-5	
21	5,568.23	29,454	-22	2	25	0	0	10	37	26	
22	5,568.15	29,370	-84	2	25	0	0	10	37	-5	
23	5,568.10	29,317	-53	2	25	0	0	10	37	10	
24	5,568.04	29,254	-63	2	25	0	0	10	37	5	
25	5,567.97	29,176	-78	2	25	0	0	10	37	-2	
26	5,567.92	29,124	-52	1	8	0	0	10	19	-7	
27	5,567.89	29,092	-32	2	20	0	0	9	31	15	
28	5,567.83	29,029	-63	2	20	0	0	9	31	-1	
29	5,567.81	29,008	-21	2	20	0	0	8	30	19	
30	5,567.79	28,978	-30	2	7	0	0	8	17	2	
31	5,567.73	28,924	-54	2	7	0	0	8	17	-10	
Total cfs-days				52	665	0	0	377	1,094	61	
Total ac-ft				-2,049	103	1,319	0	748	2,170	121	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/				
Jul 31	5,769.04	62,164								
1	5,768.99	61,959	-205	7	3	1	0	39	50	
2	5,768.97	61,822	-137	7	3	1	0	39	50	
3	5,768.93	61,755	-67	7	3	1	0	39	50	
4	5,768.91	61,653	-102	7	3	1	0	39	50	
5	5,768.88	61,517	-136	7	3	1	0	39	50	
6	5,768.84	61,416	-101	7	3	1	0	39	50	
7	5,768.81	61,348	-68	7	3	1	0	38	49	
8	5,768.79	61,280	-68	7	3	1	0	38	49	
9	5,768.77	61,213	-67	7	3	1	0	38	49	
10	5,768.75	61,213	0	7	3	1	0	38	49	
11	5,768.71	61,077	-136	7	3	1	0	38	49	
12	5,768.69	61,010	-67	7	3	1	0	38	49	
13	5,768.65	60,875	-135	7	3	1	0	38	49	
14	5,768.63	60,807	-68	7	3	1	0	38	49	
15	5,768.54	60,673	-134	7	3	1	0	38	49	
16	5,768.55	60,538	-135	7	3	1	0	38	49	
17	5,768.52	60,437	-101	7	3	1	0	38	49	
18	5,768.52	60,437	0	7	3	1	0	38	49	
19	5,768.49	60,337	-100	7	3	1	0	38	49	
20	5,768.47	60,270	-67	7	3	1	0	38	49	
21	5,768.50	60,370	100	7	3	1	0	38	49	
22	5,768.49	60,337	-33	7	3	1	0	38	49	
23	5,768.47	60,327	-10	7	3	1	0	38	49	
24	5,768.44	60,169	-158	7	3	1	0	38	49	
25	5,768.41	60,069	-100	7	3	1	0	38	49	
26	5,768.39	60,002	-67	7	3	1	0	38	49	
27	5,768.37	59,935	-67	7	3	1	0	38	49	
28	5,768.33	59,801	-134	7	3	1	0	38	49	
29	5,768.31	59,735	-66	7	3	1	0	38	49	
30	5,768.29	59,668	-67	7	3	1	0	38	49	
31	5,768.24	59,501	-167	7	3	1	0	38	49	
Total cfs-days				220	91	28	0	1,184	1,523	
Total ac-ft				-2,663	437	180	55	0	2,349	
									358	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes Plumas County and Grizzly Ranch.

**Table 4. Lake Oroville**

Daily Operation  
(in acre-feet except as noted)  
Capacity: 3,537,580 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/	
Jul 31	795.72	2,143,834											
1	794.53	2,130,647	-13,187	15,441	26	0	1	242	0	15,710	0	2,523	
2	793.35	2,117,626	-13,021	15,693	26	0	1	276	0	15,996	0	2,975	
3	792.49	2,108,173	-9,453	12,034	26	0	1	281	0	12,342	0	2,889	
4	791.59	2,098,312	-9,861	12,051	26	0	1	281	0	12,359	0	2,498	
5	790.38	2,085,105	-13,207	16,006	26	0	1	273	0	16,306	0	3,099	
6	789.11	2,071,308	-13,797	16,204	26	0	1	251	0	16,482	0	2,685	
7	787.77	2,056,821	-14,487	16,130	26	0	1	236	0	16,393	0	1,906	
8	786.62	2,044,445	-12,376	15,061	26	0	1	186	0	15,274	0	2,898	
9	785.47	2,032,123	-12,322	14,574	26	0	1	220	0	14,821	0	2,499	
10	784.61	2,022,944	-9,179	11,204	26	0	1	219	0	11,450	0	2,271	
11	783.50	2,011,139	-11,805	13,829	26	0	1	225	0	14,081	0	2,276	
12	782.36	1,999,067	-12,072	14,646	26	0	1	237	0	14,910	0	2,838	
13	781.20	1,986,837	-12,230	14,756	26	0	1	264	0	15,047	0	2,817	
14	779.96	1,973,822	-13,015	15,017	26	0	1	290	0	15,334	0	2,319	
15	778.74	1,961,078	-12,744	14,658	26	0	1	302	0	14,987	0	2,243	
16	777.56	1,948,808	-12,270	14,920	26	0	1	247	0	15,194	0	2,924	
17	776.31	1,935,871	-12,937	15,146	26	0	1	265	0	15,438	0	2,501	
18	775.00	1,922,380	-13,491	15,206	26	0	1	264	0	15,497	0	2,006	
19	773.79	1,909,980	-12,400	15,100	26	0	1	164	0	15,291	0	2,891	
20	772.55	1,897,332	-12,648	14,836	26	0	1	157	0	15,020	0	2,372	
21	771.27	1,884,341	-12,991	14,892	26	0	1	169	0	15,088	0	2,097	
22	770.14	1,872,926	-11,415	14,374	26	0	1	214	0	14,615	0	3,200	
23	769.05	1,861,956	-10,970	13,750	26	0	1	226	0	14,003	0	3,033	
24	767.98	1,851,237	-10,719	12,609	26	0	1	206	0	12,842	0	2,123	
25	767.04	1,841,856	-9,381	12,392	26	0	1	205	0	12,624	0	3,243	
26	765.89	1,830,427	-11,429	13,553	26	0	1	217	0	13,797	0	2,368	
27	764.91	1,820,728	-9,699	13,654	26	0	1	216	0	13,897	0	4,198	
28	763.80	1,809,787	-10,941	13,380	26	0	1	234	0	13,641	0	2,700	
29	762.70	1,798,991	-10,796	13,225	26	0	2	226	0	13,479	0	2,683	
30	761.64	1,788,632	-10,359	13,313	26	0	4	237	0	13,580	0	3,221	
31	761.12	1,783,566	-5,066	8,016	26	0	4	218	0	8,264	0	3,198	
Total				-360,268	435,670	810	0	38	7,248	0	443,762	0	83,494

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation (in acre-feet except as noted)											August 2013
Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Water and Sewer	Releases To River 4/	Hyatt Powerplant Pumpback	
Jul 31	23,979										
1	24,216	237	15,441	365	0	11,923	7	9	5,119	0	1,489
2	23,582	-634	15,693	432	0	12,956	7	9	5,197	0	1,410
3	21,863	-1,719	12,034	403	0	10,275	7	9	5,072	0	1,207
4	22,658	795	12,051	432	0	7,423	7	9	5,193	0	944
5	22,756	98	16,006	484	0	12,253	7	9	5,193	0	1,070
6	22,692	-64	16,204	384	0	12,605	7	9	5,133	0	1,102
7	23,381	689	16,130	472	0	11,912	7	9	5,155	0	1,170
8	24,492	1,111	15,061	406	0	10,360	7	9	5,177	0	1,197
9	24,354	-138	14,574	486	0	10,789	7	9	5,179	0	786
10	23,877	-477	11,204	417	0	7,956	7	9	5,117	0	991
11	23,965	88	13,829	486	0	10,187	7	9	5,117	0	1,093
12	23,860	-105	14,646	436	0	11,212	7	9	5,117	0	1,158
13	23,755	-105	14,756	402	0	11,328	7	9	5,117	0	1,198
14	23,681	-74	15,017	203	0	11,328	7	9	5,137	0	1,187
15	23,173	-508	14,658	67	0	11,328	7	9	5,135	0	1,246
16	23,284	111	14,920	294	0	11,328	7	9	5,115	0	1,356
17	23,604	320	15,146	321	0	11,328	7	9	5,135	0	1,332
18	24,025	421	15,206	447	0	11,328	7	9	5,117	0	1,229
19	24,284	259	15,100	411	0	11,328	7	9	5,137	0	1,229
20	24,153	-131	14,836	364	0	11,328	7	9	5,157	0	1,170
21	24,007	-146	14,892	254	0	11,601	7	9	4,879	0	1,204
22	23,484	-523	14,374	240	0	12,141	7	9	4,265	0	1,285
23	23,564	80	13,750	469	0	11,675	7	9	3,747	0	1,299
24	23,925	361	12,609	347	0	10,435	7	9	3,330	0	1,186
25	24,587	662	12,392	416	0	10,435	7	9	2,836	0	1,141
26	25,037	450	13,553	419	0	12,191	7	9	2,343	0	1,028
27	24,525	-512	13,654	419	0	13,514	7	9	2,053	0	998
28	23,944	-581	13,380	431	0	13,390	7	9	2,025	0	1,039
29	23,870	-74	13,225	487	0	12,915	7	9	2,021	0	1,166
30	23,801	-69	13,313	339	0	12,875	7	9	2,017	0	1,187
31	23,652	-149	8,016	401	0	7,162	2	5	2,007	0	610
Total		-327	435,670	11,934	0	348,809	212	275	134,346	0	35,711

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Jul 31	134.41	48,350											
1	134.42	48,390	40	11,923	2,995	26	702	1,845	5,950	0	-365	11,069	
2	134.75	49,720	1,330	12,956	2,956	26	704	1,817	5,950	0	-173	11,147	
3	134.44	48,470	-1,250	10,275	2,936	26	672	1,795	5,950	0	-146	11,022	
4	133.45	44,568	-3,902	7,423	2,936	26	665	1,795	5,950	0	47	11,143	
5	133.75	45,736	1,168	12,253	2,916	26	665	1,775	5,950	0	247	11,143	
6	134.13	47,234	1,498	12,605	2,896	26	665	1,736	5,930	0	146	11,063	
7	134.29	47,870	636	11,912	2,896	26	665	1,698	5,930	0	-61	11,085	
8	134.10	47,116	-754	10,360	2,896	26	635	1,644	5,911	0	-2	11,088	
9	134.07	46,997	-119	10,789	2,896	26	625	1,579	5,911	0	129	11,090	
10	133.28	43,912	-3,085	7,956	2,896	26	625	1,547	5,891	0	-56	11,008	
11	133.03	42,956	-956	10,187	2,876	24	625	1,547	5,891	0	-180	11,008	
12	133.04	42,994	38	11,212	2,856	26	625	1,529	5,871	0	-267	10,988	
13	133.14	43,376	382	11,328	2,837	22	575	1,494	5,891	0	-127	11,008	
14	133.25	43,797	421	11,328	2,856	19	557	1,468	5,911	0	-96	11,048	
15	133.36	44,220	423	11,328	2,836	19	526	1,444	5,930	0	-150	11,065	
16	133.48	44,684	464	11,328	2,777	14	516	1,428	5,930	0	-199	11,045	
17	133.64	45,306	622	11,328	2,737	11	488	1,410	5,950	0	-110	11,085	
18	133.82	46,011	705	11,328	2,698	11	476	1,371	5,970	0	-97	11,087	
19	134.06	46,957	946	11,328	2,717	11	431	1,264	5,990	0	31	11,127	
20	134.35	48,110	1,153	11,328	2,717	11	369	1,149	5,990	0	61	11,147	
21	134.65	49,315	1,205	11,601	2,658	11	345	1,089	6,208	0	-85	11,087	
22	134.99	50,698	1,383	12,141	2,519	11	341	1,043	6,720	0	-124	10,985	
23	135.16	51,396	698	11,675	2,400	11	335	1,008	7,260	0	37	11,007	
24	134.90	50,331	-1,065	10,435	2,321	11	308	992	7,775	0	-93	11,105	
25	134.48	48,631	-1,700	10,435	2,281	11	298	980	8,290	0	-275	11,126	
26	134.41	48,350	-281	12,191	2,261	11	262	913	8,807	0	-218	11,150	
27	134.68	49,437	1,087	13,514	2,182	10	210	825	9,084	0	-116	11,137	
28	134.91	50,371	934	13,390	2,122	8	171	736	9,100	0	-319	11,125	
29	135.05	50,944	573	12,915	2,063	8	137	635	9,100	0	-399	11,121	
30	135.24	51,726	782	12,875	1,936	8	113	534	9,084	0	-418	11,101	
31	134.16	47,353	-4,373	7,162	1,851	9	109	460	9,025	0	-81	11,032	
<b>Total</b>				<b>-997</b>	<b>348,809</b>	<b>81,720</b>	<b>537</b>	<b>14,440</b>	<b>40,550</b>	<b>209,100</b>	<b>0</b>	<b>-3,459</b>	<b>343,446</b>

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

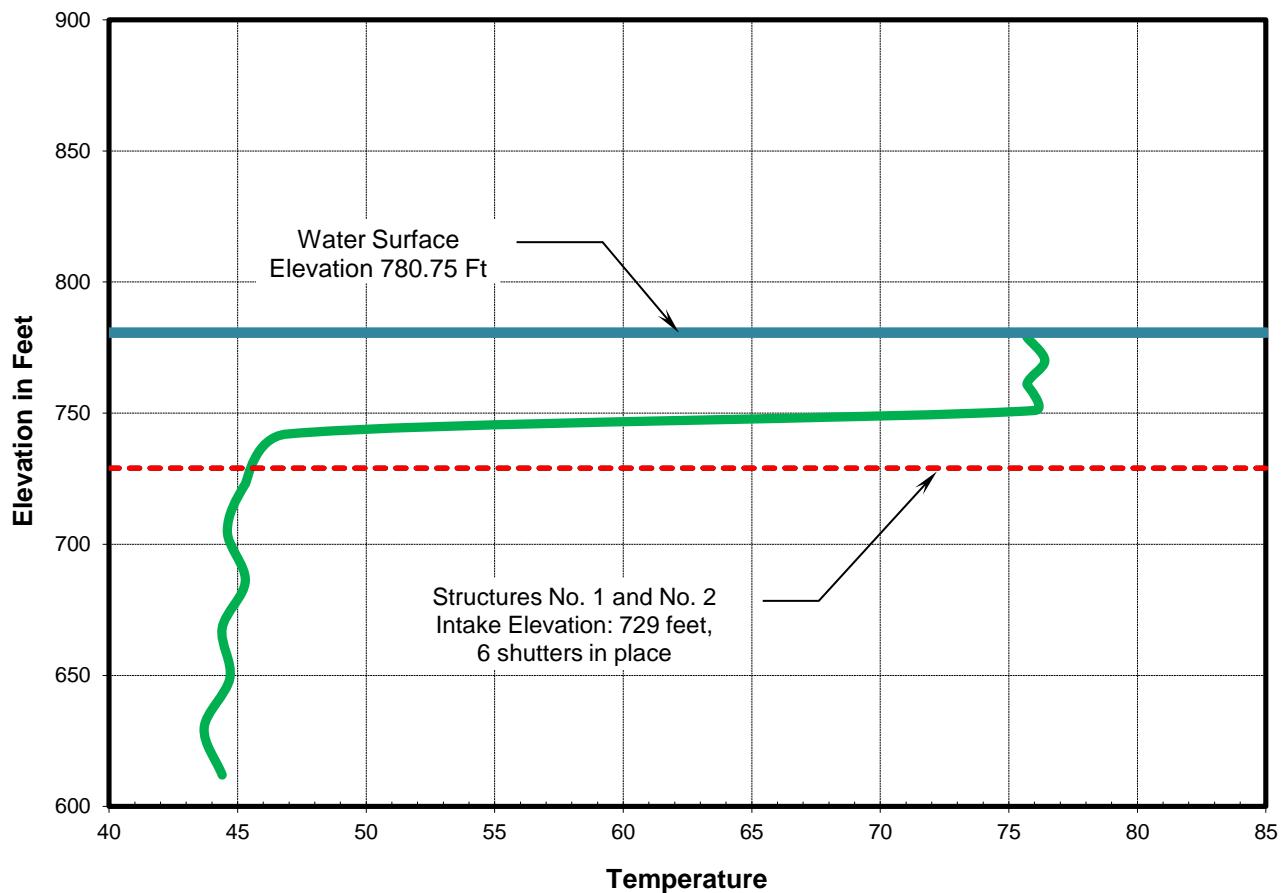
Water Temperature Data

(in degrees Fahrenheit)

August 2013

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	65.0	62.3
2	66.5	62.7
3	67.0	63.0
4	67.4	62.8
5	67.7	63.0
6	67.4	63.5
7	66.8	59.2
8	67.4	59.4
9	67.6	60.2
10	67.5	56.4
11	67.3	55.7
12	66.9	57.4
13	67.0	58.3
14	65.8	59.0
15	64.2	59.4
16	64.5	60.0
17	65.2	60.7
18	65.5	61.2
19	65.3	61.4
20	65.2	59.2
21	65.0	56.2
22	65.0	56.8
23	65.6	57.2
24	64.6	57.7
25	63.5	57.7
26	64.4	59.1
27	64.9	56.3
28	63.2	56.5
29	63.3	56.9
30	64.2	57.1
31	63.3	50.3

**Lake Oroville Temperature Profile  
on August 14, 2013**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

August 2013

(In acre-feet)						Deliveries						
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Permit	Pool A	Article 56	Settlement Water		
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	6,452	163	116					
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	279							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	411							
				Solano County Water Agency Fairfield / Vacaville 42"	2,205							
2			17.00	Solano County Water Agency Central Solano	Stub							
3A		Cordelia Forebay	21.23		0	1448						
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,456							
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,448	3	517	124	200			
				Solano County Water Agency Benicia	1,164							
		Cordelia Surge Tank	23.33		0							
		Creston Surge Tank Connection	25.65		0							
			26.95	Napa County Flood Control & WCD American Canyon 2	3							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	517							
			27.60	Napa County Flood Control & WCD American Canyon 1	324							

**Table 9. Delta Field Division Plant Data**

**August 2013**

(in acre-feet)

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	221	122	10,918	10,918	0	0	580	0	0	0
2	222	126	8,322	8,322	0	0	580	0	0	0
3	210	110	7,861	7,861	0	0	579	0	0	0
4	207	112	7,856	7,856	0	0	580	0	0	0
5	210	119	7,853	7,853	0	0	618	0	0	0
6	192	103	8,783	8,783	0	0	723	0	0	0
7	182	92	10,168	10,168	0	0	654	0	0	0
8	220	121	10,259	10,259	0	0	528	0	0	69
9	221	116	10,555	10,555	0	0	488	0	0	78
10	214	117	10,333	10,333	0	0	488	0	0	78
11	206	112	11,051	11,051	0	0	471	0	0	78
12	197	101	10,883	10,883	0	0	397	0	0	78
13	202	105	10,950	10,950	0	0	421	0	0	78
14	202	104	11,382	11,382	0	0	488	0	0	78
15	224	126	10,490	10,490	0	0	508	0	0	73
16	219	123	11,424	11,424	0	0	532	0	0	78
17	213	121	12,914	12,914	0	0	498	0	0	78
18	216	117	12,526	12,526	0	0	562	0	0	78
19	217	110	13,144	13,144	0	0	444	0	0	78
20	201	98	14,072	14,072	109	0	463	0	0	78
21	204	106	13,735	13,735	0	0	547	0	0	78
22	209	108	11,791	10,801	0	0	519	0	0	78
23	212	117	13,679	12,689	0	0	444	0	0	78
24	210	119	14,134	13,144	0	0	457	0	0	78
25	203	109	14,784	13,794	0	0	397	0	0	78
26	201	106	12,714	11,724	198	0	451	0	0	88
27	177	85	14,090	13,100	128	0	421	0	0	98
28	174	86	13,864	12,874	63	0	247	0	0	0
29	222	118	13,218	12,228	143	0	336	0	0	0
30	219	120	10,992	10,002	82	0	346	0	0	78
31	225	127	11,125	10,135	0	0	466	0	0	160
Total	6,452	3,456	355,870	345,970	723	0	15,233	0	0	1,814

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

Date	Time											Amount of inflow in Acre-Feet
	Opened	Closed										
	00:01	00:30	03:15	07:14	14:35							
1	00:01	00:30	03:15	07:14	14:35							9,903
2	00:01	01:30	04:00	11:00	14:00	21:00						8,910
3	00:01	02:30	05:00	11:45	14:45	19:15						7,918
4	00:01	03:15	05:30	12:15	18:10	20:05						7,920
5	01:00	04:00	06:15	12:45	15:45	21:00						9,896
6	04:30	07:00	13:15	16:15								9,909
7	00:01	05:15	07:30	13:45	16:45	22:25						9,900
8	00:20	05:45	08:15	14:15	17:15	22:05						9,908
9	00:15	06:30	08:45	20:45								9,898
10	09:30	15:15	18:15	23:10								9,903
11	00:01	08:00	10:30	16:00	19:00							10,900
12		04:45	07:45	20:30	23:45							11,341
13		05:45	08:45	20:30								10,907
14	00:30	07:00	16:00	22:50								9,299
15	01:30	07:00	16:20	23:30								10,905
16	02:30	04:15	12:15									12,874
17		00:45	03:30	10:15	13:15	21:30						12,893
18	00:01	02:00	04:45	11:00	14:00	22:00						12,891
19	00:01	03:00	05:30	11:45	14:45							13,878
20	06:33	12:45	15:45	22:30								13,882
21	00:01	04:45	07:30	13:55	17:15	21:30						12,874
22	00:01	05:30	08:15	14:50	17:00	21:15						12,887
23	00:01	06:30	09:00	14:45	17:45	21:40						13,881
24	00:01	07:15	18:00	19:30	22:30							13,876
25		04:15	07:15	20:15								14,225
26	00:01	05:00	08:00	21:00								14,236
27	00:01	06:00	09:00	21:00								14,229
28	01:30	08:15	11:15	23:00								14,222
29												11,879
30	02:30	09:30	12:30	19:15								10,898
31	00:01	01:15	03:30	10:15	13:15	19:30						10,903
Total inflow for the month in AF:												357,945

**Table 11. Governor Edmund G. Brown California Aqueduct**  
 Delta Field Division, Monthly Deliveries

(In acre-feet)							August 2013	
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries			
	Beginning and Ending				Table A	USBR	Local	Article 56
	No.	Structure	Mile					Dry Year Purchase
1A			1.83	Byron-Bethany I.D.	3,881		3,881	
1	1	Banks Pumping Plant	3.32		355,870			
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	15,233			
		Check No. 1	5.95					
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0			
2A	2	Delta Mendota Canal - California Aqueduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	723			
				Outflow to Delta Mendota Canal from California Aqueduct	0			
	2	Check No. 2	12.01					
	3		12.47	Musco Olive	50	50		
		Check No. 3	18.29					
	4		22.16	Tracy Golf & Country Club	0			
		Check No. 4	23.99					
	5	Check No. 5	29.73					
	6	Check No. 6	34.24					
	7		35.22	Turlock Fruit Company Inflow	0			
		Check No. 7	39.91					
2B	8		42.46	Oak Flat Water District-A	91	66		25
			42.9	Western Hills WD	163	163		
			43.81	Oak Flat Water District-B	164	164		
			44.64	Oak Flat Water District-C	94	94		
	9	Check No. 8	45.97					
			46.18	Oak Flat Water District-D	77	77		
	10			Oak Flat Totals:	426	401	0	25
		Check No. 9	51.3					0
		Check No. 10	56.86					
	11	Check No. 11	61.4					
	12		66.14	Veteran's Cemetery	38	38		
		Check No. 12	66.71		341,901			

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

August 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	Article 56	Semitropic Water Bank Recovery	Local	Rec.	Other		
	No.	Structure											
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	15,233								
			3.17	Granite - Vasco Rd. (Temp.)	0								
			3.18	Oakland Scavenger Zone 7	7	7							
	2	Check No. 1	3.91										
		Check No. 2	5.21				28						
	2			Zone 7 Altamont	28								
		Check No. 3	9.49	Zone 7 Patterson Storage Exchange	0								
4	6			Zone 7 Patterson Project Water	1,186		186						
		Check No. 4	10.68										
		Check No. 5	12.29										
			13.55	Zone 7 Wente #1	222	222							
			14.16	Zone 7 Wente #2	162	162							
				Corbett Ising Project Water	65	65							
		Check No. 6	14.65										
			14.78	Zone 7 Arroyo Mocho Project Water	668		668						
		Check No. 7	16.38										
			16.57	Zone 7 Wente #3	0								
			16.63	Zone 7 Wente #4	118	118							
				Zone 7 Norman Nursery	7	7							
			16.70	Zone 7 Concannon Project Water	83	83							
5	8	Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0								
				Pumped into South Bay Aqueduct	0								
				Gravity into South Bay Aqueduct	1,814								
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Storage Exchange:	252				252				
				Project Water	322								
				Storage Released	0								
				Inflow Release	21				21				
				East Bay Regional Park Dist.									
				Del Valle Recreation	22								
				Zone 7 Wente #5	129	129							
6			19.20	So. Livermore Project	2,506				1,000				
				So. Livermore Inflow Released	0								
				So. Livermore Stored Exchanged	0								
			19.21	Zone 7 - Kalthrof Detjens	84	84							
7		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0								
			25.97	City of San Francisco San Antonio	0								
		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water	2,324	70			1,000	1,254			
8				Storage Released	0								
				Storage Exchange:	0								
9		Santa Clara Pipeline	35.86	S.C.V.W.D. Meter	8,853				8,853				

1/ Transfer from Non-SWP contractor to SWP contractor.

2/ This includes Pool MP 1,200 AF and Dry Year Purchase water of 306 AF.

Table 13. Lake Del Valle Daily Operation (in acre-feet except as noted)											August 2013
Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Jul 31	702.08	39,267									
1	702.06	39,253	-14	1	0	0	0	1	15	16	0.00
2	702.03	39,232	-21	-7	0	0	0	1	13	14	0.00
3	702.01	39,218	-14	1	0	0	0	1	14	15	0.00
4	701.98	39,197	-21	-7	0	0	0	1	13	14	0.00
5	701.96	39,183	-14	0	0	0	0	1	13	14	0.00
6	701.94	39,169	-14	-3	0	0	0	1	10	11	0.00
7	701.92	39,155	-14	-3	0	0	0	1	10	11	0.00
8	701.90	39,141	-14	71	0	0	69	1	15	85	0.00
9	701.71	39,008	-133	-40	0	0	78	1	13	92	0.00
10	701.52	38,876	-132	-43	0	0	78	1	10	89	0.00
11	701.33	38,744	-132	-40	0	0	78	1	13	92	0.00
12	701.14	38,612	-132	-40	0	0	78	1	13	92	0.00
13	701.04	38,543	-69	23	0	0	78	1	14	93	0.00
14	700.94	38,474	-69	26	0	0	78	1	16	95	0.00
15	700.84	38,405	-69	20	0	0	73	1	15	89	0.00
16	700.68	38,294	-110	-17	0	0	78	1	14	93	0.00
17	700.54	38,198	-96	-2	0	0	78	1	15	94	0.00
18	700.41	38,108	-89	2	0	0	78	1	13	92	0.00
19	700.34	38,060	-48	44	0	0	78	1	13	92	0.00
20	700.22	37,978	-82	15	0	0	78	1	18	97	0.00
21	700.11	37,903	-75	18	0	0	78	1	15	94	0.00
22	700.00	37,827	-75	17	0	0	78	1	13	92	0.00
23	699.90	37,759	-68	22	0	0	78	0	12	90	0.00
24	699.80	37,691	-68	21	0	0	78	0	11	89	0.00
25	699.70	37,622	-68	23	0	0	78	0	13	91	0.00
26	699.50	37,486	-136	-35	0	0	88	0	13	101	0.00
27	699.40	37,418	-68	42	0	0	98	0	12	110	0.00
28	699.20	37,282	-136	-125	0	0	0	0	11	11	0.00
29	699.10	37,215	-68	-57	0	0	0	0	11	11	0.00
30	698.97	37,127	-88	5	0	0	78	0	15	93	0.00
31	698.84	37,039	-88	88	0	0	160	0	15	175	0.00
Total			-2,228	21	0	0	1,814	22	413	2,249	0.00

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

3/ To East Bay Regional Park District.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

August 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Jul 31	224.75	55,754											
1	223.62	52,705	-3,049	0	560	0	5,418	0	2,031	5,188	8	-288	
2	222.05	48,517	-4,188	0	351	0	3,895	174	1,293	4,993	8	111	
3	222.05	48,517	0	0	485	960	3,888	18	0	5,263	8	-44	
4	222.87	50,699	2,182	0	954	1,346	3,568	0	0	4,610	8	-150	
5	224.21	54,293	3,594	0	882	1,776	3,703	0	0	4,381	8	-160	
6	224.18	54,212	-81	0	737	111	4,048	0	0	4,838	8	-91	
7	222.74	50,353	-3,859	0	678	0	4,784	0	2,829	4,681	8	110	
8	223.68	52,866	2,513	0	1,055	1,005	4,855	0	719	4,804	8	-117	
9	223.90	53,458	592	0	1,372	0	4,979	0	1,667	4,378	8	0	
10	223.97	53,646	188	0	1,269	0	5,252	0	1,734	4,656	8	-28	
11	224.64	55,455	1,809	0	1,388	0	5,054	0	2,121	3,486	8	85	
12	224.44	54,914	-541	0	1,408	0	5,390	0	3,742	3,511	8	190	
13	221.56	47,230	-7,684	0	1,046	0	5,432	0	5,915	4,594	8	165	
14	220.77	45,158	-2,072	0	1,267	0	5,126	0	3,353	4,146	8	69	
15	220.65	44,844	-314	0	986	0	5,136	0	2,075	4,239	8	42	
16	221.19	46,259	1,415	0	935	0	5,434	0	1,660	4,025	8	37	
17	222.01	48,411	2,152	0	1,043	0	6,292	0	1,874	4,194	8	-174	
18	222.12	48,703	292	0	1,341	0	6,450	0	4,135	3,820	8	319	
19	221.90	48,124	-579	0	1,860	0	6,275	0	4,885	3,465	8	-69	
20	222.07	48,571	447	0	1,987	0	6,819	0	4,836	3,740	8	3	
21	221.31	46,574	-1,997	0	1,648	0	6,482	0	4,813	4,380	8	64	
22	221.18	46,233	-341	0	1,548	0	6,032	0	3,630	4,201	8	87	
23	221.76	47,756	1,523	0	1,691	0	6,587	0	3,220	4,334	10	54	
24	221.90	48,124	368	0	1,917	0	6,788	0	4,712	3,809	10	12	
25	221.71	47,625	-499	0	2,178	0	7,013	0	5,363	4,083	10	13	
26	221.78	47,809	184	0	2,575	0	6,236	0	5,252	3,625	10	169	
27	222.31	49,208	1,399	0	2,539	0	7,122	0	4,947	3,972	10	-27	
28	222.68	50,193	985	0	2,297	0	6,744	0	4,829	3,735	10	30	
29	222.22	48,969	-1,224	0	2,281	0	6,722	0	5,917	4,100	22	419	
30	221.73	47,677	-1,292	0	2,190	0	5,719	0	4,457	4,185	22	104	
31	222.12	48,703	1,026	0	2,491	0	5,129	0	3,000	4,022	22	-59	
Total				-7,051	0	44,959	5,198	172,372	192	95,009	131,458	302	876
Mean cfs					0	1,450	168	5,560	6	3,065	4,241	10	28
Acre-feet				-7,051	0	89,182	10,310	341,901	382	188,451	260,745	599	1,733

1/ Pump-in located at Mile 79.67R.

2/ Includes 164 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., 0 AF to DWR Water Truck at O'Neill, and 435 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

August 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Jul 31	372.07	318,979						
1	372.42	321,284	2,305	2,031	0	220	0	-649
2	372.75	323,462	2,178	1,293	0	221	0	26
3	372.44	321,416	-2,046	0	960	227	0	155
4	371.96	318,256	-3,160	0	1,346	202	0	-45
5	371.36	314,323	-3,933	0	1,776	226	0	19
6	371.21	313,342	-981	0	111	207	0	-177
7	371.78	317,074	3,732	2,829	0	250	0	-697
8	371.74	316,812	-262	719	1,005	202	0	356
9	372.00	318,519	1,707	1,667	0	223	0	-583
10	372.41	321,218	2,699	1,734	0	215	0	-158
11	372.92	324,586	3,368	2,121	0	185	0	-238
12	373.88	330,960	6,374	3,742	0	215	0	-313
13	375.41	341,208	10,248	5,915	0	214	0	-534
14	376.24	347,031	5,823	3,353	0	214	0	-203
15	376.70	350,183	3,152	2,075	0	225	0	-261
16	377.07	352,726	2,543	1,660	0	229	0	-149
17	377.48	355,551	2,825	1,874	0	227	0	-223
18	378.50	362,614	7,063	4,135	0	201	0	-373
19	379.73	371,198	8,584	4,885	0	226	0	-331
20	380.90	379,431	8,233	4,836	0	234	0	-451
21	382.06	387,658	8,227	4,813	0	231	0	-434
22	382.90	393,655	5,997	3,630	0	239	0	-368
23	383.64	398,966	5,311	3,220	0	252	0	-290
24	384.74	406,909	7,943	4,712	0	262	0	-445
25	386.02	416,223	9,314	5,363	0	245	0	-422
26	387.25	425,246	9,023	5,252	0	250	0	-453
27	388.40	433,747	8,501	4,947	0	223	0	-438
28	389.57	442,458	8,711	4,829	0	238	0	-199
29	390.89	452,363	9,905	5,917	0	246	0	-677
30	391.87	459,769	7,406	4,457	0	248	0	-475
31	392.52	464,705	4,936	3,000	0	246	0	-265
Total			145,726	95,009	5,198	7,043	0	-9,295
Mean cfs				3,065	168	227	0	-300
Acre-feet			145,726	188,451	10,310	13,965	0	-18,450

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 12,393 AF, Casa De Fruta 0 AF, and San Benito 1,572 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)								August 2013
Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project		
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal	
1	10,291	7,145	0	0	4,028	4,028	436	
2	9,903	6,520	0	0	2,564	2,564	438	
3	10,440	7,121	1,905	1,905	0	0	450	
4	9,143	5,818	2,670	2,670	0	0	400	
5	8,689	5,321	3,522	-1,062	0	0	448	
6	9,597	6,160	220	-2,779	0	0	410	
7	9,284	5,874	0	0	5,611	5,611	495	
8	9,529	6,202	1,993	107	1,426	1,426	400	
9	8,683	6,548	0	0	3,307	3,307	442	
10	9,236	7,076	0	0	3,439	3,439	427	
11	6,914	4,747	0	0	4,207	4,207	367	
12	6,964	4,813	0	0	7,422	7,422	426	
13	9,113	6,952	0	0	11,732	11,732	425	
14	8,223	6,130	0	0	6,651	21	425	
15	8,409	6,293	0	0	4,116	4,116	446	
16	7,983	6,943	0	0	3,293	3,293	454	
17	8,318	7,272	0	0	3,717	3,717	450	
18	7,576	6,495	0	0	8,202	4,921	399	
19	6,872	5,826	0	0	9,689	9,689	448	
20	7,418	6,363	0	0	9,593	9,593	464	
21	8,688	7,615	0	0	9,546	6,351	458	
22	8,332	7,262	0	0	7,200	3,719	474	
23	8,597	7,528	0	0	6,387	1,579	500	
24	7,555	6,514	0	0	9,347	6,203	520	
25	8,099	7,016	0	0	10,637	6,076	486	
26	7,191	6,126	0	0	10,417	4,436	495	
27	7,879	6,833	0	0	9,812	6,708	443	
28	7,409	6,359	0	0	9,579	3,725	472	
29	8,132	7,084	0	0	11,737	5,364	488	
30	8,301	7,240	0	0	8,841	2,748	492	
31	7,977	6,907	0	0	5,951	-122	487	
Total	260,745	202,103	10,310	841	188,451	125,873	13,965	

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

August 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jul 31	318.75	16,562					
1	318.71	16,545	-17	0	0	0	-17
2	318.69	16,537	-8	0	0	0	-8
3	318.65	16,520	-17	0	0	0	-17
4	318.64	16,516	-4	0	0	0	-4
5	318.62	16,507	-9	0	0	0	-9
6	318.58	16,491	-16	0	0	0	-16
7	318.56	16,482	-9	0	0	0	-9
8	318.54	16,474	-8	0	0	0	-8
9	318.51	16,461	-13	0	0	0	-13
10	318.49	16,453	-8	0	0	0	-8
11	318.48	16,449	-4	0	0	0	-4
12	318.43	16,428	-21	0	0	0	-21
13	318.41	16,419	-9	0	0	0	-9
14	318.41	16,419	0	0	0	0	0
15	318.38	16,407	-12	0	0	0	-12
16	318.37	16,403	-4	0	0	0	-4
17	318.35	16,394	-9	0	0	0	-9
18	318.34	16,390	-4	0	0	0	-4
19	318.32	16,382	-8	0	0	0	-8
20	318.27	16,361	-21	0	0	0	-21
21	318.25	16,353	-8	0	0	0	-8
22	318.22	16,340	-13	0	0	0	-13
23	318.20	16,332	-8	0	0	0	-8
24	318.17	16,319	-13	0	0	0	-13
25	318.14	16,307	-12	0	0	0	-12
26	318.13	16,303	-4	0	0	0	-4
27	318.08	16,282	-21	0	0	0	-21
28	318.07	16,278	-4	0	0	0	-4
29	318.04	16,265	-13	0	0	0	-13
30	318.01	16,253	-12	0	0	0	-12
31	317.98	16,240	-13	0	0	0	-13
Total			-322	0	0	0	-322
Mean cfs				0	0	0	
Acre-feet			-322	0	0	0	-322

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

August 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jul 31	602.40	815					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	602.40	815	0	0	0	0	0
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	Not Observed						
30	Not Observed						
31	602.40	815	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs				0	0	0	0
Acre-feet			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

August 2013

(In acre-feet)		Deliveries					
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries		USBR Recreation
	Beginning and Ending				USBR	Transfer	
	No.	Structure	Mile				
2B	12	Check No. 12	66.71		341,901		
3A		San Luis Reservoir		Department of Parks and Recreation	0		
				San Felipe Division Santa Clara Water District	12,393	12,393	
				Casa de Fruita Santa Clara Water District	0		
				San Felipe Division San Benito Water District	1,572	1,572	
				Reach 3A Subtotal:	13,965	13,965	0 0 0
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation			
				Cattle Program			
				Department of Fish & Game	164		90 74
		Thru 85.08	70.91	San Luis Water District	435	435	
				(Floodwater Inflow)			
				Reach 3 Subtotal:	599	435	0 90 74
		Dos Amigos Pumping Plant	86.73		260,745		
4		14	89.03				
			Thru 94.06	San Luis Water District	4,671	4,671	
			89.66				
			Thru 89.67	Pacheco Water District	910	910	
			89.68	Panoche Water District	45	45	
		15	89.70	City of Dos Palos	229	229	
			Check No. 14	95.06			
			98.15				
			Thru 104.20	San Luis Water District	481	481	
			96.15				
			Thru 102.64	Panoche Water District	2,855	2,855	
			102.64	(Floodwater Inflow)			
			102.64	Broadview Water District	0		
			105.22				
			Thru 108.64	Westlands Water District	6,179	6,179	
		Check No.15	108.50				
			Reach 4 Subtotal:		15,370	15,370	0 0 0
			San Felipe Division Total:		13,965	13,965	0 0 0
			Pacheco Water District Total:		910	910	0 0 0
			Broadview Water District Total:		0	0	0 0 0
			City of Dos Palos Total:		229	229	0 0 0
			SLWD Reach 4 Subtotal:		5,152	5,152	0 0 0
			Panoche Water District Total:		2,900	2,900	0 0 0
			SLWD Total:		5,587	5,587	0 0 0
			Westlands WD Reach 4 Subtotal:		6,179	6,179	0 0 0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

August 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0						
				Westlands Water District	6,742	6,742					
				Thru Dept. of Fish and Game @ Lat. 4L	1				1		
				Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
		Check No. 16	122.07								
	17		124.18	Westlands Water District	2,544	2,544					
		Check No. 17	132.95								
	18		133.81	Westlands Water District	7,151	7,151					
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	7,255	7,255					
		Check No. 18	143.23								
6	19		145.26	Reach 5 Subtotal:	24,288	24,287	0	0	1		
				GWF Energy	2	2					
				City of Huron	6	6					
				Kings County to Lemoore NAS Through WWD	288		1/ 288				
				Kings County through WWD 30L	0						
			151.19	Westlands Water District	6,817	6,817					
				Check No. 19	155.64						
					Reach 6 Subtotal:	7,113	6,825	288	0		
7	20		156.34	City of Huron	120	120					
				SWP Construction @ Lat. 24R	0						
				Westlands Water District	3,042	3,042					
		Check No. 20	156.40								
	21		163.69	164.69							
				164.79	City of Avenal	263	263				
				167.04	Westlands Water District	1,610	1,610				
		Check No. 21	164.69	Thru 171.67							
					205,254						
				Reach 7 Total:	5,035	5,035	0	0	0		
				2/ SWP Const. / GWF Energy	2	2	0	0	0		
				Westlands WD Total:	41,341	41,340	0	0	1		
				City of Coalinga Total:	595	595	0	0	0		
				City of Huron Total:	126	126	0	0	0		
				Kings County to Lemoore NAS Through WWD	288	0	288	0	0		
				City of Avenal Total:	263	263	0	0	0		
				Total San Luis Field Division Deliveries:	66,370	65,917	288	90	75		

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations

August 2013

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Jul 31	29,603								
1	29,757	154	0	5,188	133	64	891	4,084	62
2	29,545	-212	0	4,993	133	64	891	3,930	-82
3	29,223	-322	0	5,263	133	64	891	4,143	-194
4	28,992	-231	0	4,610	133	64	891	3,629	-10
5	29,216	224	0	4,381	133	64	891	3,449	269
6	28,999	-217	0	4,838	133	64	891	3,808	-51
7	28,693	-306	0	4,681	133	64	891	3,685	-62
8	29,453	760	0	4,804	87	35	669	3,781	151
9	29,085	-368	0	4,378	87	35	669	3,446	-327
10	29,480	395	0	4,656	87	35	669	3,665	-1
11	29,031	-449	0	3,486	87	35	669	2,744	-177
12	28,999	-32	0	3,511	87	35	669	2,764	28
13	28,762	-237	0	4,594	87	35	669	3,616	-306
14	28,565	-197	0	4,146	85	35	669	3,263	-193
15	28,990	425	0	4,239	97	49	672	3,337	130
16	29,017	27	0	4,025	97	49	672	3,169	-25
17	29,132	115	0	4,194	97	49	672	3,301	-17
18	29,108	-24	0	3,820	97	49	672	3,007	-7
19	28,916	-192	0	3,465	97	49	672	2,728	-16
20	28,790	-126	0	3,740	97	49	672	2,944	-41
21	29,236	446	0	4,380	97	49	672	3,448	111
22	28,905	-331	0	4,201	85	45	589	3,307	-342
23	29,116	211	0	4,334	85	45	589	3,412	-97
24	28,954	-162	0	3,809	93	45	589	2,999	-165
25	29,187	233	0	4,083	98	45	589	3,214	-20
26	28,712	-475	0	3,625	98	45	589	2,854	-278
27	28,705	-7	0	3,972	98	45	589	3,126	-118
28	28,593	-112	0	3,735	98	45	589	2,940	-120
29	28,661	68	0	4,100	100	39	579	3,228	-120
30	28,709	48	0	4,185	100	39	579	3,295	-148
31	28,817	108	0	4,022	100	33	580	3,166	-88
Total		-786	0	131,458	3,172	1,462	21,485	103,481	-2,254
Mean cfs			0	4,241	102	47	693	3,338	-73
Acre-feet		-786	0	260,745	6,291	2,900	42,615	205,254	-4,471

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 910 AF to Pacheco W.D., 229 AF to the City of Dos Palos and 5,115 AF to San Luis Water District.

3/ Includes 120 AF to the City of Huron, 263 AF to the City of Avenal, 595 AF to the City of Coalinga, 6 AF to City of Huron P&R @ 22R, 288 AF to Lemoore N.A.S. @ 29L, 2 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 1 AF to DFG @ 4L, 0 AF to Pilibos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L, 0 AF to Non-Project Water, 41,340 AF to Westlands Water District.

Table 21. San Joaquin Field Division Plant Data									
(in acre-feet) August 2013									
Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	565	522	90	83	90	4,698	4,019	3,710	3,522
2	594	505	73	66	70	4,419	4,024	3,699	3,624
3	594	518	68	63	67	5,233	4,751	4,510	4,392
4	578	529	74	71	73	4,866	5,030	4,853	4,823
5	585	546	60	58	60	3,784	3,480	3,185	3,050
6	620	569	69	62	69	4,652	3,891	3,600	3,457
7	581	550	80	75	79	4,228	3,866	3,470	3,324
8	474	494	74	69	74	4,124	3,443	3,137	3,078
9	494	483	73	68	74	4,648	3,466	3,175	3,028
10	574	544	109	100	109	4,453	4,305	4,040	3,913
11	596	560	103	96	102	4,376	4,118	3,895	3,903
12	589	567	94	88	95	3,752	3,658	3,332	3,215
13	605	512	107	97	101	4,337	3,785	3,411	3,396
14	653	509	97	91	98	4,178	3,523	3,212	3,153
15	528	465	114	104	114	3,704	3,352	3,062	2,968
16	538	427	98	91	97	4,048	3,385	3,028	2,998
17	603	551	98	90	97	4,172	3,637	3,354	3,384
18	652	614	101	92	101	3,487	3,245	3,122	3,111
19	659	615	119	106	112	2,103	3,015	2,713	2,612
20	615	477	91	85	92	3,378	2,461	2,449	2,488
21	669	540	116	108	116	4,062	3,225	2,857	2,781
22	651	517	100	96	101	4,183	3,446	3,051	2,932
23	682	510	104	96	103	4,063	3,431	3,155	3,170
24	681	546	104	93	102	4,132	3,550	3,315	3,190
25	680	543	111	102	109	4,547	4,682	4,531	4,509
26	670	542	97	91	96	3,918	3,421	3,230	3,149
27	588	515	111	102	109	3,912	3,428	3,115	3,041
28	615	592	98	90	98	3,483	2,919	2,689	2,610
29	588	567	104	98	105	3,959	3,446	3,139	3,004
30	625	571	100	92	98	4,010	3,356	3,085	2,952
31	420	429	104	97	104	4,088	3,559	3,396	3,325
Total	18,566	16,429	2,941	2,720	2,915	126,997	112,917	104,520	102,102

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)							August 2013						
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	2012 Transfer	Pump-in Recovery	Pool MP	Other			
	No.	Structure	Mile										
7	21	Check No. 21	172.40		205,254								
8C	22		172.66	Empire West Side ID TL - A	81				16	1/ 65			
				County of Kings TL - A	0								
				Tulare Lake Basin WSD TL-A	3,342	2,635			707				
			175.18	Dudley Ridge WD - 1	786					2/ 786			
			177.54	Dudley Ridge WD - 1B	241					1/ 241			
			180.64	Tulare Lake Basin WSD - C	0								
			180.65	Dudley Ridge WD - 1A	1,102		800			3/ 302			
			182.99	Dudley Ridge WD - 2	1,844				1,191	4/ 653			
			183.00	Tulare Lake Basin WSD TL - B	5,007	5,007							
				County of Kings TL-B	147	107			33	1/ 7			
8D			184.00	Dudley Ridge WD - Paramount	2					2			
			184.63	Coastal Branch	18,566								
31A	8D		184.78	Dudley Ridge WD - 3	2,049		8		1,777	2/ 264			
				Dudley Ridge Reach 8D Total:	6,024	0	808	0	2,970	2,246			
				Tulare Lake Basin WSD Total:	8,349	7,642	0	0	707	0			
			Check No. 22	184.82									
9	23	Kern County Water Agency	189.69	Lost Hills Water Dist. - 1	8,496			8,496					
			191.18	Lost Hills Water Dist. - 2	1,889			1,889					
			194.22	Lost Hills Water Dist. - 3	1,075			1,075					
			196.40	Berrenda Mesa - 2	967			967					
			196.75	Lost Hills Water Dist. - 4	2,650			464		1/ 2,186			
				K.C.W.A. Reach 9 Subtotal:	15,077	0	0	12,891	0	2,186			
10A	24		Check No. 23	197.05									
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	1,202					1/ 1,202			
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	1,110					1/ 1,110			
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	8	8							
			206.99	Kern County Water Agency Semitropic WSD - 3	242					1/ 242			
			Check No. 24	207.94									
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	2,978					5/ 2,978			
			209.78	Kern National Wildlife Refuge USBR BV-1B	2,953					6/ 2,953			
				Kern County Water Agency Buena Vista WSD 1B	355					7/ 355			
10A	25		209.80	KCWA Semitropic WSD	3,008		2,750			7/ 258			
				KCWA Semitropic WSD Penstocks	2,534		2,534						
				USBR Total:	2,953	0	0	0	0	2,953			
				K.C.W.A. Reach 10A Subtotal:	11,437	8	5,284	0	0	6,145			

1/ Yuba Dry Purchase.

2/ Table A Transfer.

3/ Includes 241 AF of 2013 Transfer and 61 AF of Yuba Dry Purchase.

4/ Includes 49 AF of Yuba Dry Purchase, 362 AF of General Conveyance and 242 AF of Table A Transfer.

5/ Includes 1,629 AF of Yuba Dry Purchase and 1,349 AF of 2013 Transfer.

6/ Kern National Wildlife Refuge, USBR.

7/ 2013 Transfer.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

August 2013

(In acre-feet)		Deliveries										
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A		2012 Transfer				
	No.	Structure	Mile					Pump-in Recovery	Pool MP	Other		
11B	25		210.75	Kern County Water Agency Belridge - 2	0							
			214.11	Kern County Water Agency Belridge - 3	1,563		1,563					
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	14,097		7,800		6,297			
				Kern County Water Agency Belridge - 5D	181	181						
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	15,841	181	9,363	0	6,297	0		
12D	26	Kern County Water Agency	219.58	Belridge - 6	0							
				West Kern - 3	551	551						
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	1,851					1,851		
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 2	3,111					1,211		
				Kern County WA CVC	413					112		
				Buena Vista WSD CVC-2 T429	302					3/ 302		
				Buena Vista WSD -8	1,836					1,836		
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	7,513	0	0	0	5,010	2,503		
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	477					477		
			243.09	Kern County Water Agency Buena Vista - 3	1,281					1,281		
			Check No. 29	244.54								
	30		249.85	Kern County Water Agency Buena Vista - 4	847					847		
			250.99	Buena Vista Pumping Plant	126,997							
				K.C.W.A. Reach 13B Subtotal:	2,605	0	0	0	2,605	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	314					314		

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID and Pixley ID.

2/ Kern Tulare WD CVP water delivered to Kern County WA.

3/ CVC contractor water to Arvin-Edison.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	2012 Transfer	Pump-in Recovery	Pool MP	Other		
	No.	Structure										
14A	31	Check No. 31	256.14	Kern County Water Agency Wheeler Ridge-Maricopa - 3	726	0	0	0	3,557	0		
	32		258.61									
			260.44									
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	3,557							
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	4,798	2,267	0	2,531	0			
			266.91									
	34	Check No. 33	267.36									
			270.24									
		Check No. 34	271.27									
				KCWA Reach 14B Total:	8,331							
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,241	2,241	0	167	2,531	0		
			276.09									
			277.30									
				Kern County Water Agency Arvin-Edison WSD	2,980							
	Teerink Pumping Plant		278.13		112,917	5,770	0	30	2,531	0		
15A			279.02									
36		280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	686	686	0	167	2,531	0			
Chrisman Pumping Plant		280.36		104,520	3,386	0	0	0	0			
		282.06										
16A	37		283.95	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	42	0	0	0	0		
			285.01									
	38		286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 12	42	24	0	0	0	0		
			287.06									
	Check No. 38		287.09	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	0	0	0	0	0	0		
			287.62									
	39		290.21	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0	1,077	0	0	0	0		
			291.26									
	40		293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 14	623	623	0	0	0	0		
17E	Edmonston Pumping Plant		293.45	K.C.W.A. Reach 16A Subtotal:	102,102	1,205	2,971	0	0	0		

1/ MWD Table A sent to Arvin-Edison.

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

August 2013

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	2012 Transfer	Pump-in Recovery	Pool MP	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		18,566						
		Las Perillas Pumping Plant	1.16		18,566						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		16,429						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	103	103					
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0						
			14.83	Kern County Water Agency Berrenda Mesa - 1	13,460	10,402		105		1/ 2,953	
				Kern County Water Agency Berrenda Mesa - PO	0	1,335					
		Devil's Den Pumping Plant	14.86		2,941						
				K.C.W.A. Reach 31A Subtotal:	14,795	11,737	0	105	0	2,953	
				K.C.W.A. Total:	92,524	27,917	14,647	13,193	20,000	16,767	
33A	C-7	Bluestone Pumping Plant	19.05		2,720						
	C-8	Polonio Pass Pumping Plant	26.54		2,915						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,530					2/ 2,530	
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	317	317					
		Energy Dissipater	78.12								
	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0						
				CCWA Total:	2,847	317	0	0	0	2,530	
35	Guadalupe T.O.	102.70		SBCFC & WCD	0						
	Santa Maria T.O.	107.43		SBCFC & WCD	0						
	So. Cal. Water T.O.	109.20		SBCFC & WCD	0						
38				SBCFC & WCD Total:	0						
	Tank Site 5	115.42									

1/ 2013 Transfer.

2/ Includes 311 AF Article 14B, 1,090 AF of Article 56C exchange, 804 AF of Table A exchange and 325 AF of Palmdale Water District Table A exchange to Santa Barbara Co.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

**August 2013**

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	1,970	2,127	0	0	671	0	1,516	0	0	1,240	1,064	0	0	1,135	62	52	31
2	2,027	2,130	0	0	3,455	0	1,372	0	0	1,054	1,143	0	0	1,219	62	58	31
3	2,344	2,118	0	0	1,067	0	1,884	0	0	1,579	1,569	0	0	1,174	62	57	31
4	2,704	2,119	0	0	1,460	0	2,033	0	0	1,733	1,722	0	0	1,197	62	58	31
5	1,595	1,721	0	0	2,587	0	1,455	0	0	1,050	1,043	0	0	1,070	63	58	31
6	1,692	1,724	0	0	2,228	358	1,777	0	0	1,386	1,311	0	0	1,150	67	58	32
7	1,701	1,723	0	0	2,791	0	1,194	0	269	1,111	1,316	0	0	1,362	69	58	32
8	1,658	1,723	0	0	2,138	0	0	0	1,347	1,424	1,273	0	0	1,224	54	43	32
9	1,647	1,720	0	0	0	0	0	0	1,281	1,202	1,101	0	0	1,187	65	52	32
10	1,963	1,799	0	0	220	0	0	0	1,405	1,555	1,728	0	0	1,226	70	58	33
11	2,090	1,721	0	0	1,363	0	0	0	1,521	1,636	1,645	0	0	1,159	70	57	32
12	1,543	1,611	0	0	2,915	1,324	0	0	1,372	1,292	1,269	0	0	1,130	71	58	33
13	1,811	1,683	0	0	2,804	1,187	0	0	1,289	1,110	1,072	0	0	1,160	71	58	33
14	1,909	1,640	0	0	2,581	1,329	0	0	1,174	1,140	1,058	0	0	1,137	71	58	32
15	1,805	1,617	0	0	2,922	0	0	0	1,124	1,106	1,238	0	0	1,198	70	58	33
16	1,649	1,611	0	0	2,586	0	0	0	1,190	1,076	988	0	0	1,198	70	58	33
17	1,698	1,606	0	0	1,009	0	0	0	1,422	1,417	1,379	0	0	1,099	70	58	33
18	1,169	1,607	0	0	1,467	1,944	0	0	1,455	1,356	1,403	0	0	1,157	65	58	33
19	1,545	1,533	0	0	2,375	1,101	0	0	1,058	954	887	0	0	1,049	70	58	32
20	1,271	1,604	0	0	2,105	0	0	0	959	1,115	1,152	0	0	1,123	80	43	32
21	1,330	1,636	0	0	3,065	1,349	0	0	1,182	952	896	0	0	1,153	70	55	32
22	1,813	1,606	0	0	3,786	0	0	0	818	953	902	0	0	1,129	70	58	32
23	1,805	1,606	0	0	4,034	1,144	0	0	1,277	955	881	0	0	1,139	80	57	32
24	1,491	1,616	0	0	120	2,205	0	0	1,388	1,263	1,192	0	0	1,061	80	58	32
25	2,769	1,606	0	0	820	0	0	0	1,372	1,386	1,433	0	0	1,117	80	58	32
26	1,750	1,606	0	0	3,458	0	0	0	1,405	1,372	1,479	0	0	1,215	70	58	32
27	1,915	1,606	0	0	3,175	1,231	0	0	702	959	919	0	0	1,228	70	58	32
28	1,542	1,605	0	0	4,541	1,246	0	0	906	850	729	0	0	1,181	70	58	32
29	1,438	1,803	0	0	4,833	1,356	523	0	694	1,084	1,035	0	0	975	70	45	32
30	1,918	1,474	0	0	518	1,192	992	0	0	913	794	0	0	1,254	85	55	32
31	1,386	1,474	0	0	0	0	1,934	0	0	1,627	1,668	0	0	1,151	85	60	32
Total	54,948	52,775	0	0	67,094	16,966	14,680	0	26,610	37,850	37,289	0	0	35,957	2,174	1,737	994

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project			To Piru Creek		
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Jul 31	2,574	164,839											
1	2,575	166,400	1,561	0	2,127	0	4	671	0	4	0	105	
2	2,574	164,890	-1,510	0	2,130	0	4	3,455	0	4	0	-185	
3	2,575	166,173	1,283	0	2,118	0	4	1,067	1	4	0	233	
4	2,575	166,515	342	0	2,119	0	4	1,460	0	4	0	-317	
5	2,575	165,460	-1,055	0	1,721	0	4	2,587	0	4	0	-189	
6	2,574	165,232	-228	358	1,724	0	4	2,228	1	4	0	-81	
7	2,573	164,144	-1,088	0	1,723	0	4	2,791	0	4	0	-20	
8	2,573	163,539	-605	0	1,723	0	4	2,138	0	4	0	-190	
9	2,574	165,308	1,769	0	1,720	0	4	0	1	4	0	50	
10	2,576	167,051	1,743	0	1,799	0	4	220	0	4	0	164	
11	2,575	166,515	-536	0	1,721	0	4	1,363	0	4	0	-894	
12	2,576	167,140	625	1,324	1,611	0	4	2,915	1	4	0	606	
13	2,576	167,153	13	1,187	1,683	0	4	2,804	0	4	0	-53	
14	2,576	167,485	332	1,329	1,640	0	4	2,581	0	4	0	-56	
15	2,575	166,159	-1,326	0	1,617	0	4	2,922	1	4	0	-20	
16	2,574	165,105	-1,054	0	1,611	0	4	2,586	0	4	0	-79	
17	2,575	165,752	647	0	1,606	0	4	1,009	0	4	0	50	
18	2,576	167,716	1,964	1,944	1,607	0	4	1,467	1	4	0	-119	
19	2,576	167,767	51	1,101	1,533	0	4	2,375	0	4	0	-208	
20	2,576	167,230	-537	0	1,604	0	4	2,105	0	4	0	-36	
21	2,576	167,038	-192	1,349	1,636	0	4	3,065	1	4	0	-111	
22	2,574	164,788	-2,250	0	1,606	0	4	3,786	0	4	0	-70	
23	2,573	163,463	-1,325	1,144	1,606	0	4	4,034	0	3	0	-42	
24	2,576	167,166	3,703	2,205	1,616	0	4	120	1	3	0	2	
25	2,576	167,844	678	0	1,606	0	4	820	0	3	0	-109	
26	2,575	165,942	-1,902	0	1,606	0	4	3,458	0	3	0	-51	
27	2,575	165,638	-304	1,231	1,606	0	4	3,175	0	3	0	33	
28	2,573	163,829	-1,809	1,246	1,605	0	3	4,541	0	3	0	-119	
29	2,572	162,095	-1,734	1,356	1,803	0	3	4,833	0	3	0	-60	
30	2,574	164,245	2,150	1,192	1,474	0	3	518	0	3	0	2	
31	2,575	165,676	1,431	0	1,474	0	3	0	0	3	0	-43	
Total				837	16,966	52,775	0	120	67,094	8	115	0	-1,807

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft									August 2013
Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake		
							Natural	Project 1/	
Jul 31	1508.13	18,472							
1	1504.54	17,142	-1,330	671	0	0	0	1,979	-22
2	1509.01	18,805	1,663	3,455	0	0	0	1,804	12
3	1507.00	18,048	-757	1,067	0	0	0	1,775	-49
4	1510.82	19,501	1,453	1,460	0	0	0	35	28
5	1517.29	22,100	2,599	2,587	0	0	0	0	12
6	1515.82	21,494	-606	2,228	0	358	0	2,468	-8
7	1512.55	20,179	-1,315	2,791	0	0	0	4,129	23
8	1509.56	19,015	-1,164	2,138	0	0	0	3,368	66
9	1508.04	18,438	-577	0	0	0	0	487	-90
10	1508.44	18,589	151	220	0	0	0	0	-69
11	1511.83	19,895	1,306	1,363	0	0	0	0	-57
12	1515.62	21,413	1,518	2,915	0	1,324	0	0	-73
13	1514.21	20,841	-572	2,804	0	1,187	0	2,251	62
14	1509.17	18,866	-1,975	2,581	0	1,329	0	3,159	-68
15	1509.12	18,847	-19	2,922	0	0	0	2,941	0
16	1510.04	19,200	353	2,586	0	0	0	2,236	3
17	1512.52	20,167	967	1,009	0	0	0	0	-42
18	1511.37	19,715	-452	1,467	0	1,944	0	0	25
19	1515.02	21,169	1,454	2,375	0	1,101	0	0	180
20	1514.58	20,990	-179	2,105	0	0	0	2,377	93
21	1510.15	19,242	-1,748	3,065	0	1,349	0	3,363	-101
22	1511.58	19,797	555	3,786	0	0	0	3,233	2
23	1514.76	21,063	1,266	4,034	0	1,144	0	1,602	-22
24	1509.67	19,057	-2,006	120	0	2,205	0	0	79
25	1511.70	19,844	787	820	0	0	0	0	-33
26	1520.02	23,249	3,405	3,458	0	0	0	0	-53
27	1517.29	22,100	-1,149	3,175	0	1,231	0	3,120	27
28	1515.09	21,197	-903	4,541	0	1,246	0	4,234	36
29	1514.89	21,116	-81	4,833	0	1,356	0	3,505	-53
30	1513.21	20,441	-675	518	0	1,192	0	0	-1
31	1513.22	20,441	0	0	0	0	0	0	0
<b>Total</b>			<b>1,969</b>	<b>67,094</b>	<b>0</b>	<b>16,966</b>	<b>0</b>	<b>48,066</b>	<b>-93</b>

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow				Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows	Released To Castaic Lagoon		
				Natural	Project						
Jul-02	1500.41	292,048									
1	1500.47	292,169	121	0	1,979	0	1,771	0	0	-87	
2	1500.53	292,301	132	0	1,804	0	1,704	0	0	32	
3	1500.54	292,322	21	0	1,775	0	1,700	0	0	-54	
4	1499.70	290,557	-1,765	0	35	0	1,670	0	0	-130	
5	1498.90	288,881	-1,676	0	0	0	1,647	0	0	-29	
6	1499.33	289,781	900	0	2,468	0	1,702	0	0	134	
7	1500.45	292,132	2,351	0	4,129	0	1,539	0	0	-239	
8	1501.25	293,818	1,686	0	3,368	0	1,621	0	0	-61	
9	1500.74	292,743	-1,075	0	487	0	1,645	0	0	83	
10	1499.98	291,144	-1,599	0	0	0	1,550	0	0	-49	
11	1499.26	289,635	-1,509	0	0	0	1,532	0	0	23	
12	1498.46	287,962	-1,673	0	0	0	1,670	0	0	-3	
13	1498.69	288,443	481	0	2,251	0	1,728	0	0	-42	
14	1499.45	290,032	1,589	0	3,159	0	1,765	0	0	195	
15	1500.05	291,291	1,259	0	2,941	0	1,764	0	0	82	
16	1500.22	291,648	357	0	2,236	0	1,711	0	0	-168	
17	1499.42	289,970	-1,678	0	0	0	1,734	0	0	56	
18	1498.66	288,380	-1,590	0	0	0	1,699	0	0	109	
19	1497.82	286,629	-1,751	0	0	0	1,807	0	0	56	
20	1498.13	287,274	645	0	2,377	0	1,681	0	0	-51	
21	1498.97	289,028	1,754	0	3,363	0	1,626	0	0	17	
22	1499.69	290,536	1,508	0	3,233	0	1,630	0	0	-95	
23	1499.58	290,305	-231	0	1,602	0	1,692	0	0	-141	
24	1498.66	288,380	-1,925	0	0	0	1,821	0	0	-104	
25	1497.78	286,546	-1,834	0	0	0	1,780	0	23	-31	
26	1496.82	284,553	-1,993	0	0	0	1,946	0	50	3	
27	1497.41	285,777	1,224	0	3,120	0	1,916	0	50	70	
28	1498.45	287,942	2,165	0	4,234	0	1,471	0	50	-548	
29	1499.10	289,300	1,358	0	3,505	0	1,964	0	50	-133	
30	1498.22	287,462	-1,838	0	0	0	1,917	0	20	99	
31	1497.22	285,382	-2,080	0	0	0	1,978	0	0	-102	
<b>Total</b>				<b>-6,666</b>	<b>0</b>	<b>48,066</b>	<b>0</b>	<b>53,381</b>	<b>0</b>	<b>243</b>	
										<b>-1,108</b>	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

August 2013

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	Rec.	Article 56C	Article 14B	Other		
	No.	Structure										
29A	42	Oso Pumping Plant	1.49		54,948							
29F	W2	Quail Lake	5.02	AVEK Water Agency	Removed	6						
		Quail Lake Embankment	7.10	Lower Quail Canal Temp (427)	6							
		Warne Power Plant	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G			14.07	(0 AF of flow through Gorman Creek Imp. Channel)	52,775							
29H	W3	Pyramid Lake		USFS Pyramid Recreation (T300)	8	8						
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(16,966 AF pump-back ) 2/	67,094							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		34,251						
				Castaic Lake Recreation (T301)	31		31					
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	47,917					3/ 13,666		
				Castaic Lake WA 18", 24" & 54" (T303)	2,361		2,361					
				Castaic Lake WA (T304)	3,072			3,072				
				MWD-Ventura Co. WPD (T302)	0							
					0							
				Disposition of Natural inflows	0							
				Releases to Castaic Lagoon	243							
				Reach 30 Subtotal:	53,381		36,612	31	3,072	0	13,666	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.87		184							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ This includes 3,666 AF of Dry Year Purchase water and 10,000 AF of Multiple Pool water.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River		
Jul 31	3351.37	71,473											
1	3351.32	71,425	-48	1,064	0	0	5	0	1,135		0	28	10
2	3351.26	71,368	-57	1,143	0	0	5	0	1,219		0	24	10
3	3351.46	71,558	190	1,569	0	0	5	3	1,174		1	-196	10
4	3352.07	72,140	582	1,722	0	0	6	0	1,197		0	63	10
5	3351.91	71,987	-153	1,043	0	0	6	0	1,070		0	-120	10
6	3352.07	72,140	153	1,311	0	0	6	1	1,150		1	0	10
7	3351.93	72,006	-134	1,316	0	0	7	0	1,362		0	-81	10
8	3351.93	72,006	0	1,273	0	0	7	0	1,224		0	-42	10
9	3351.71	71,796	-210	1,101	0	0	7	0	1,187		0	-117	10
10	3352.07	72,140	344	1,728	0	0	7	0	1,226		0	-151	10
11	3352.58	72,628	488	1,645	0	0	7	1	1,159		0	10	10
12	3352.66	72,705	77	1,269	0	0	7	1	1,130		0	-54	10
13	3352.52	72,571	-134	1,072	0	0	7	1	1,160		1	-37	10
14	3352.36	72,417	-154	1,058	0	0	8	0	1,137		0	-67	10
15	3352.44	72,494	77	1,238	0	0	8	0	1,198		1	46	10
16	3352.21	72,274	-220	988	0	0	7	0	1,198		0	-3	10
17	3352.44	72,494	220	1,379	0	0	8	0	1,099		0	-52	10
18	3352.58	72,628	134	1,403	0	0	5	0	1,157		1	-106	10
19	3352.60	72,647	19	887	0	0	5	1	1,049		0	187	10
20	3351.76	71,835	-812	1,152	0	0	5	1	1,123		1	-834	10
21	3351.74	71,825	-10	896	0	0	7	0	1,153		0	254	10
22	3351.51	71,606	-219	902	0	0	6	0	1,129		0	14	10
23	3351.06	71,178	-428	881	0	0	6	0	1,139		1	-163	10
24	3351.49	71,587	409	1,192	0	0	6	0	1,061		0	284	10
25	3351.47	71,568	-19	1,433	0	0	6	0	1,117		0	-329	10
26	3351.99	72,063	495	1,479	0	0	5	0	1,215		0	236	10
27	3351.52	71,615	-448	919	0	0	5	0	1,228		1	-133	10
28	3351.05	71,169	-446	729	0	0	5	1	1,181		0	12	10
29	3350.98	71,102	-67	1,035	0	0	5	0	975		0	-122	11
30	3350.67	70,809	-293	794	0	0	5	1	1,254		1	174	11
31	3351.03	71,150	341	1,668	0	0	5	0	1,151		0	-171	11
<b>Total</b>				<b>-323</b>	<b>37,289</b>	<b>0</b>	<b>0</b>	<b>189</b>	<b>11</b>	<b>35,957</b>	<b>0</b>	<b>9</b>	<b>-1,446</b>
													<b>313</b>

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**August 2013**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jul 31	1560.16	69,217				
1	1560.22	69,326	109		153	
2	1560.16	69,217	-109		154	
3	1560.25	69,381	164		154	
4	1560.25	69,381	0		153	
5	1560.25	69,381	0		156	
6	1560.22	69,326	-55		153	
7	1560.30	69,472	146		154	
8	1560.30	69,472	0		153	
9	1560.30	69,472	0		154	
10	1560.30	69,472	0		154	
11	1560.30	69,472	0		154	
12	1560.33	69,527	55		162	
13	1560.38	69,618	91		153	
14	1560.30	69,472	-146		154	
15	1560.38	69,618	146		149	
16	1560.47	69,783	165		159	
17	1560.38	69,618	-165		154	
18	1560.38	69,618	0		154	
19	1560.38	69,618	0		163	
20	1560.44	69,728	110		162	
21	1560.38	69,618	-110		60	
22	1560.47	69,783	165		60	
23	1560.47	69,783	0		55	
24	1560.47	69,783	0		59	
25	1560.60	70,021	238		59	
26	1560.60	70,021	0		62	
27	1560.60	70,021	0		55	
28	1560.69	70,186	165		54	
29	1560.82	70,425	239		54	
30	1560.70	70,205	-220		55	
31	1561.04	70,830	625		59	
<b>Total</b>			<b>1,613</b>	<b>0</b>	<b>3,734</b>	<b>5,347</b>

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

August 2013

(In acre-feet)		Deliveries				
Reach No.	Operating Pool		Turnout	Total Diversions		
	Beginning and Ending				Table A	Rec.
	No.	Structure	Mile		Article 56C	Transfer
17E	40	Edmonston Pumping Plant	293.45		102,102	
	41		298.65	KCWA Tej.-Cas	Stub	
17F		Check No. 41	303.41			
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0	
		Check No. 42	304.99			
18A	43	Alamo Powerplant	305.73	(Includes 14,680 AF generation, 0 AF plant bypass, and 26,610 AF Tehachapi Bypass)	41,290	
			306.71	AVEK 305th Street West (T287)	0	
19			308.05	AVEK 294th Street West (T267)	138	138
		Check No. 43	309.70			
19	44		311.84	LADWP Connection	0	
			313.50	AVEK 245th Street West (T269)	0	
19	45		314.81			
			314.93	AVEK 235th Street West (T270)	0	
19	46		315.57	AVEK 225th Street West (T271)	0	
			319.74			
19	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	1,099	1,099
				MWA Fairmont (T272)	171	171
19	46			Palmdale Water District (272)	1	1
			323.84			
20A	47			Reach 19 Total:	1,409	1,408
			326.77		0	0
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	7	7
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed	
20B	49		330.82			
			335.93			
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,596	4,596
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	86	86
20B	50		340.92	AVEK WA-Temp (T387)	0	
			341.51			
20B	51		342.06	AVEK WA-Temp (T386)	0	
			342.07			
20B	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0	
			343.74			
21	52		346.98	Palmdale WD (T276) Temp.	1,621	486
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	125	125
21	53		348.17			
			350.25			
21	54		352.70			
			354.76			
22A	55		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0	
			354.97	Palmdale WD (T276)	0	
22A	56		354.97	Palmdale WD (T391)	0	
			356.93			
22A	57		357.60	AVEK 95th Street East (T279)	0	
			357.72	AVEK 96th Street East (T280)	0	
22A	58		359.76	AVEK East Side Treatment Plant (T281)	397	397

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

August 2013

(In acre-feet)		Deliveries						
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries			
	Beginning and Ending				Table A	Rec.	Article 56C	Transfer
	No.	Structure	Mile		Local	Purch. Pool A	Other	
22B	58	Pearblossom Pumping Plant	360.61		37,850			
	59	Check No. 59	366.09					
	60		366.50	AVEK Big Rock Siphon (T368)	30	30		
	61	Check No. 60	373.94					
	62	Check No. 61	379.00					
	63	Check No. 62	384.26					
	64			MWA (T282)	290	290		
	65	Check No. 63	389.20	MWA (T422)	3	3		
	66	Check No. 64	395.10					
		Check No. 65	400.32					
23				Mojave Water Agency				
				Morongo 24" & 42" (T284)	9	9		
24								
		Check No. 66	401.10					
			403.41					
		Mojave Siphon	405.58	Las Flores Ranch Exchange	313			
		Mojave Siphon Power Plant	405.65		37,289			
				MWA CS DAM (T288)	0			
				407.65				
				California State Park Silverwood (T288)	11	11		
				Crestline-Lake Arrowhead WA State Project Water (T289)	189	189		
25				Non-Project Water (T289)	0			
		San Bernardino Intake Tunnel			35,957			
26A		Devil Canyon Powerplant	412.73		35,957			
				MWD-Rialto (T290)	1,280	1,280		
				MWD-Rialto (T293)	15,857	12,883		1 / 2,974
				MWD-Rialto (T294)	0			
				Desert Water Agency Transfer (T293)	0			
				Coachella Valley WD (T293)	0			
				Coachella Valley WD (T294)	0			
				San Gabriel Valley MWD (T290)	0			
				MWD EBX-1 (T290)	0			
				MWD EBX-1 (T291)	0			
EBX	68	Devil Canyon Afterbay Control Structures		SBV MWD construction (T428)	3			2 / 3
				412.88				
				San Bernardino Valley MWD (T290)	170	170		
				San Bernardino Valley MWD (T291)	1,471	1,471		
				San Bernardino Valley MWD (T403)	437	437		
				San Bernardino Valley MWD (T407)	743	743		
				San Gorgonio Pass WA (T413)	994	494		3 / 500
28G			425.46					
28H		Santa Ana Valley Pipeline		Coachella Valley (T295)	5,146			
				Coachella Valley (T296)	0			
				Desert Water Agency (T296)	0			
				MWD-SC Box Springs (T295)	4,044	4,044		
				MWD-SC (T296)	705	705		
28J		Lake Perris						
				MWD-SC (T297)	152	152		
				MWD-SC 54" & 78" (T299)	3,560	3,560		
				Coachella Valley (T2969)	0			
				Desert Water Agency (T299)	0			
				Ca. St. Pk. Lake Perris Rec. (T298)	22	22		
				MWD Total:	73,515	56,875	0	0
						13,666	0	2,974

1/ This includes 2,957 AF of Table A exchange to a SWP contractor and 17 AF of Arvin-Edison recovery water.

2/ SWP construction water.

3/ Arvin Edison Water Bank Recovery water.

4/ General Conveyance through a Table A exchange.

**Table 32. Water Quality At Selected SWP Locations**

**August 2013**

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	41	84	63	60	60	59	62	65	77
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.002	0.002	0.002	0.003	0.003	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Bromide	mg/l	<0.01	0.02	0.24	0.32	0.33	0.35	0.27	0.30	0.20
Calcium	mg/l	9	13	14	14	13	14	16	17	20
Chloride	mg/l as C	1	11	69	95	98	101	85	90	64
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	<0.001
Copper	mg/l	<0.001	0	<0.001	0	<0.001	<0.001	0	0	0
Hardness	mg/l	38.000	81.000	81.000	90.000	86.000	88.000	87.000	88.000	96.000
Iron	mg/l	0.007	0.006	0.015	0.006	<0.005	0.005	<0.005	<0.005	0.007
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	12	11	14	13	13	11	11	11
Manganese	mg/l	<0.005	0.009	<0.005	0.006	0.006	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.090	0.210	0.080	0.100	0.030	0.180	0.080	0.150
Organic Carbon, Dissolved	mg/l	NR	4	3	3	3	3	3	3	3
Organic Carbon, Total	mg/l as N	NR	4.300	2.800	2.500	2.900	2.700	2.600	2.500	3.500
Phosphate-Ortho	mg/l as P	0.02	0.14	0.07	0.07	0.09	0.07	NR	0.04	0.07
Phosphorus-Total	mg/l	<0.01	0.14	0.05	0.05	0.05	0.04	0.05	0.03	0.12
Selenium	mg/l	<0.001	<0.001	<0.001	0.00	0.00	0.00	0.00	0.00	<0.001
Sodium	mg/l	4.000	15.000	50.000	60.000	66.000	69.000	67.000	66.000	54.000
Specific Conductance	µS/cm	102	228	416	497	510	521	469	507	458
Sulfate	mg/l	2	11	21	20	22	24	27	29	38
Total Dissolved Solids	mg/l	64	125	231	276	282	289	262	280	253
Turbidity	NTU	1	15	9	4	3	3	2	2	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**August 2013**

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l			
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
30	1	6.22	4.34	5,127	5,127	9,251	2.91	8.88	0.57	0.79	1.20	1.17	0.50	0.52	0.46	136
	2	6.16	4.27	5,669	5,398	9,159	2.81	8.34	0.57	0.78	1.18	1.18	0.49	0.51	0.46	139
	3	6.30	4.36	6,242	5,679	9,309	2.92	8.82	0.65	0.75	1.21	1.19	0.50	0.42	0.47	146
	4	6.41	4.40	6,130	5,792	9,235	2.98	9.44	0.72	0.72	1.23	1.19	0.49	0.39	0.46	152
	5	6.31	4.32	5,050	5,644	9,083	2.82	8.99	0.68	0.68	1.18	1.18	0.48	0.36	0.46	157
	6	6.23	4.30	5,099	5,553	9,146	2.88	9.02	0.68	0.66	1.18	1.19	0.48	0.33	0.44	166
	7	6.15	4.21	4,918	5,462	8,979	2.84	8.98	0.66	0.64	1.14	1.19	0.48	0.31	0.43	169
	8	5.86	4.08	4,793	5,379	8,918	2.66	8.21	0.55	0.62	1.08	1.18	0.50	0.31	0.45	170
	9	5.75	4.11	5,054	5,343	9,119	2.63	8.25	0.54	0.60	1.10	1.17	0.50	0.32	0.48	172
	10	5.50	4.10	4,465	5,255	8,739	2.53	8.24	0.48	0.59	1.07	1.17	0.50	0.32	0.49	170
	11	5.60	4.02	4,760	5,210	9,233	2.37	7.59	0.40	0.58	1.04	1.16	0.51	0.32	0.49	169
	12	5.81	4.07	5,190	5,208	9,350	2.38	7.47	0.40	0.57	1.04	1.14	0.49	0.37	0.47	167
	13	5.92	4.02	5,226	5,210	9,358	2.46	7.52	0.41	0.56	1.03	1.13	0.49	0.40	0.47	165
	14	6.18	4.12	6,002	5,266	9,571	2.58	8.12	0.50	0.56	1.06	1.12	0.49	0.43	0.49	166
	15	6.40	4.24	5,251	5,265	9,496	2.73	8.53	0.53	0.55	1.10	1.11	0.47	0.42	0.48	160
	16	6.49	4.33	4,413	5,212	9,726	2.82	8.29	0.60	0.56	1.14	1.11	0.47	0.42	0.45	170
	17	6.50	4.34	4,798	5,187	10,045	3.06	8.73	0.70	0.56	1.19	1.11	0.46	0.40	0.44	169
	18	6.65	4.39	4,641	5,157	10,196	3.24	9.18	0.81	0.57	1.22	1.11	0.45	0.36	0.44	169
	19	6.65	4.44	4,671	5,132	10,549	3.45	10.07	0.86	0.58	1.24	1.11	0.46	0.36	0.45	167
	20	6.70	4.64	4,201	5,085	10,237	3.87	11.29	1.07	0.61	1.39	1.13	0.46	0.34	0.44	162
	21	6.59	4.54	4,138	5,040	9,814	3.98	11.46	1.10	0.64	1.46	1.15	0.48	0.34	0.45	160
	22	6.29	4.45	4,323	5,007	9,953	3.60	11.10	0.87	0.66	1.44	1.18	0.49	0.37	0.45	156
	23	5.99	4.37	4,218	4,973	10,269	3.62	10.47	0.85	0.68	1.42	1.20	0.50	0.40	0.47	154
	24	6.03	4.33	4,651	4,960	10,590	3.58	10.23	0.69	0.70	1.45	1.23	0.52	0.42	0.49	154
	25	5.90	4.16	4,594	4,945	10,614	3.42	9.71	0.57	0.71	1.43	1.26	0.53	0.42	0.50	154
	26	5.95	4.14	5,209	4,955	10,897	3.34	9.16	0.54	0.72	1.39	1.28	0.53	0.45	0.49	150
	27	6.03	4.17	4,940	4,955	10,758	3.39	9.06	0.55	0.73	1.42	1.31	0.55	0.49	0.50	150
	28	6.02	4.24	4,716	4,946	10,578	3.42	9.43	0.55	0.73	1.48	1.34	0.55	0.49	0.50	148
	29	5.89	4.19	5,646	4,970	10,402	3.37	9.19	0.49	0.73	1.54	1.37	0.55	0.45	0.53	155
	30	5.01	2.18	5,962	5,003	10,216	4.03	8.72	0.52	0.73	1.52	1.40	0.55	0.43	0.52	160
	31			5,994	5,035	10,241	3.99	8.72	0.56	0.72	1.57	1.43	0.57	0.42	0.52	160

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**August 2013**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 19, 2013	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 19, 2013	2,4-D Atrazine Dacthal (DCPA) Metolachlor	0.30 0.05 0.01 0.10
O'Niell Forebay Outlet Check 13	June 18, 2013	Dacthal (DCPA) Simazine	0.01 0.02
Delta Mendota Canal At McCabe Road	June 18, 2013	2,4-Dichlorophenylacetic acid (DCAA) Atrazine Metolachlor	1.10 0.02 0.10
California Aqueduct Near Kettleman City (Check 21)	June 18, 2013	N/A	N/A
California Aqueduct At Near Highway 119 (Check 29)	June 24, 2013	Dacthal (DCPA)	0.04
California Aqueduct at Tehachapi Afterbay (Check 41)	June 19, 2013	Simazine	0.03
California Aqueduct At Devil Canyon 2nd Afterbay ( 2nd Afterbay )	June 19, 2013	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)		August 2013						
Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	8,623,923	0	48,710	39,579	3,081,168	3,081,168	467,876	367
2	8,713,177	0	48,805	40,040	2,352,936	2,352,936	464,509	375
3	6,708,130	0	44,753	36,354	2,248,872	2,248,872	462,792	391
4	6,704,896	0	43,426	36,931	2,243,928	2,243,928	462,508	388
5	8,827,500	11	44,571	37,609	2,217,576	2,217,576	491,903	382
6	8,896,998	0	39,444	35,923	2,464,888	2,464,888	572,090	366
7	8,829,491	11	36,088	32,102	2,855,136	2,855,136	522,684	373
8	8,226,922	0	49,825	40,921	2,897,376	2,897,376	427,013	370
9	7,908,494	0	45,440	36,238	2,991,216	2,991,216	397,439	444
10	6,095,617	0	43,795	37,738	2,946,824	2,946,824	397,026	451
11	7,520,612	0	44,402	37,996	3,128,128	3,128,128	382,735	435
12	7,951,273	0	40,660	34,470	3,076,016	3,076,016	324,881	487
13	7,999,123	0	42,564	35,404	3,084,720	3,084,720	344,834	450
14	8,113,116	0	42,087	35,368	3,206,896	3,206,896	394,397	419
15	7,924,070	0	49,304	41,099	2,966,848	2,966,848	409,058	458
16	8,059,942	12,606	47,663	39,634	3,219,888	3,219,888	428,025	464
17	8,149,229	13,255	46,705	38,791	3,640,576	3,640,576	462,921	458
18	8,149,790	13,222	46,509	37,153	3,558,872	3,558,872	449,502	466
19	8,073,813	6,534	44,336	36,656	3,705,224	3,705,224	358,989	487
20	7,894,502	0	41,103	34,272	3,944,872	3,944,872	376,692	459
21	7,899,936	0	42,769	34,776	3,844,976	3,844,976	439,145	429
22	7,618,017	0	44,477	37,774	3,290,104	2,996,104	416,781	354
23	7,300,557	0	45,824	37,045	3,841,000	3,547,000	361,249	509
24	6,713,894	0	44,126	37,415	3,986,720	3,692,720	369,334	515
25	6,589,352	0	41,424	34,603	4,140,984	3,846,984	322,402	520
26	7,133,390	0	41,773	37,198	3,569,816	3,275,816	364,497	502
27	7,120,828	0	35,421	32,336	3,950,792	3,656,792	344,807	485
28	6,988,245	0	34,901	31,292	3,886,968	3,592,968	291,547	499
29	6,860,007	0	48,079	39,260	3,721,112	3,427,112	280,491	532
30	6,851,119	0	47,392	38,444	3,101,152	2,807,152	288,166	536
31	4,191,044	0	50,618	39,468	3,124,760	2,830,760	377,467	533
Total	234,637,007	45,639	1,366,996	1,143,889	100,290,344	97,350,344	12,453,762	13,904

**Table 36. San Luis Field Division Energy Data**

(in kWh)		August 2013				
Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load /1	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,494,882	1,058,882	0	0	711,029	711,029
2	1,333,525	897,525	0	0	461,791	461,791
3	1,434,402	978,402	225,423	225,423	4,895	4,895
4	1,254,010	798,010	314,413	314,413	0	0
5	1,176,552	720,552	408,738	-123,262	0	0
6	1,273,142	837,142	24,651	-311,349	15,917	15,917
7	1,239,754	803,754	0	0	986,183	986,183
8	1,305,515	869,515	228,250	12,250	251,581	251,581
9	1,169,613	901,613	0	0	591,921	591,921
10	1,228,694	960,694	0	0	618,134	618,134
11	916,375	648,375	0	0	716,243	716,243
12	930,469	662,469	0	0	1,310,529	1,310,529
13	1,211,355	943,355	0	0	2,098,261	2,098,261
14	1,131,381	843,381	0	0	1,203,862	3,862
15	1,144,703	856,703	0	0	758,681	758,681
16	1,105,402	961,402	0	0	610,764	610,764
17	1,145,637	1,001,637	0	0	684,167	684,167
18	1,009,201	865,201	0	0	1,499,883	899,883
19	946,204	802,204	0	0	1,800,084	1,800,084
20	1,012,721	868,721	0	0	1,795,497	1,795,497
21	1,165,844	1,021,844	0	0	1,792,791	1,192,791
22	1,119,755	980,755	0	0	1,344,387	694,387
23	1,156,291	1,017,291	0	0	1,195,579	295,579
24	1,044,932	905,932	0	0	1,783,892	1,183,892
25	1,074,730	935,730	0	0	2,040,423	1,190,423
26	971,309	832,309	0	0	2,003,067	853,067
27	1,084,131	945,131	0	0	1,896,565	1,296,565
28	1,015,313	876,313	0	0	1,963,676	769,676
29	1,116,941	977,941	0	0	2,210,109	1,010,109
30	1,126,181	987,181	0	0	1,741,245	541,245
31	1,072,521	933,521	0	0	1,175,812	-24,188
Total	35,411,483	27,693,483	1,201,475	117,475	35,266,968	23,322,968

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)										August 2013
Date	Coastal Branch					California Aqueduct				
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston	
1	44,477	109,141	63,173	60,185	62,662	1,138,063	1,058,643	2,236,993	7,881,543	
2	46,759	113,612	51,244	48,421	49,104	1,064,387	1,053,574	2,225,553	8,081,451	
3	45,943	113,153	48,651	46,151	47,502	1,251,774	1,251,457	2,709,509	9,813,285	
4	45,564	109,734	52,057	50,429	51,463	1,249,576	1,315,134	2,912,514	10,707,444	
5	46,075	113,192	42,818	42,480	42,557	908,320	900,095	1,924,087	6,821,901	
6	48,757	116,843	48,731	45,446	48,491	1,118,493	1,018,220	2,172,995	7,755,615	
7	45,444	113,303	56,208	54,746	55,068	1,018,053	1,001,464	2,116,444	7,519,770	
8	42,977	104,389	51,919	50,274	52,006	993,861	896,404	1,904,265	6,901,227	
9	38,572	97,921	51,812	50,137	51,491	1,051,654	900,652	1,934,042	6,921,099	
10	44,838	111,758	75,153	71,646	74,906	1,129,158	1,141,789	2,458,918	8,845,416	
11	45,698	114,848	70,663	69,058	70,371	1,045,336	1,088,699	2,388,914	8,746,839	
12	46,285	115,165	65,442	63,704	65,785	908,404	951,100	2,040,643	7,200,981	
13	46,971	118,204	73,826	69,254	70,091	1,036,753	987,147	2,085,171	7,563,105	
14	49,134	123,473	67,334	65,345	67,836	996,642	923,389	1,967,724	7,075,593	
15	40,764	103,297	78,300	74,434	78,142	886,345	872,852	1,866,557	6,627,231	
16	41,468	104,364	68,422	65,653	67,272	969,710	863,896	1,837,374	6,599,529	
17	46,550	116,944	68,243	65,364	67,484	1,009,402	951,397	2,035,968	7,453,620	
18	51,141	125,453	69,682	66,051	69,500	841,338	842,787	1,899,370	6,992,703	
19	52,229	127,933	78,673	75,326	77,128	814,369	786,965	1,657,876	5,851,548	
20	47,607	118,732	64,109	61,861	63,828	791,915	736,866	1,510,839	5,367,168	
21	52,260	129,379	80,267	77,143	79,503	978,746	838,233	1,741,960	6,239,781	
22	51,292	124,413	70,265	69,139	69,967	1,007,041	906,268	1,875,203	6,572,718	
23	49,934	123,264	71,883	69,241	71,190	979,835	906,129	1,941,467	6,998,400	
24	53,265	129,903	71,739	67,189	69,568	995,985	940,428	2,022,691	7,156,080	
25	52,955	130,532	76,991	72,809	75,639	1,092,330	1,216,289	2,738,417	10,106,316	
26	52,749	128,414	67,830	65,354	66,982	945,196	902,119	1,957,879	7,068,762	
27	45,650	117,282	76,319	72,620	74,879	945,518	903,641	1,895,575	6,807,024	
28	47,364	122,694	68,620	65,032	68,005	838,618	774,025	1,633,984	5,794,821	
29	45,454	118,003	72,510	70,322	72,419	957,218	906,043	1,908,852	6,772,383	
30	47,598	122,759	69,678	65,748	68,046	968,094	881,161	1,874,862	6,624,342	
31	31,887	84,560	71,541	69,048	71,359	986,796	938,768	2,068,528	7,454,997	
Total	1,447,660	3,602,661	2,044,102	1,959,609	2,020,243	30,918,931	29,655,635	63,545,174	228,322,692	

**Table 38. Southern Field Division Energy Data**

(in kWh)										August 2013		
Date	West Branch			East Branch				East Branch Extension				
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant		
1	518,171	1,235,315	2,064,000	179,366	830,825	1,415,830	67,799	37,700	45,199	3,458		
2	531,350	1,236,546	2,064,000	160,919	709,759	1,517,285	77,785	40,133	49,615	3,448		
3	614,689	1,235,644	2,064,000	222,731	1,052,196	1,454,616	124,855	41,092	49,577	3,440		
4	708,404	1,238,433	2,064,000	244,065	1,154,656	1,482,926	138,817	40,466	49,613	3,466		
5	420,993	1,024,577	1,680,000	171,520	708,798	1,320,998	67,823	41,022	49,737	3,464		
6	444,757	1,024,448	1,680,000	209,132	934,025	1,418,242	99,301	42,088	49,716	3,511		
7	448,613	1,023,921	1,680,000	142,729	766,950	1,684,278	96,067	43,397	49,684	3,474		
8	436,105	1,023,897	1,680,000	0	956,250	1,521,515	91,505	33,885	36,861	3,606		
9	433,033	1,021,928	1,680,000	0	809,138	1,482,131	72,053	39,079	45,073	3,707		
10	515,533	1,061,292	1,680,000	0	1,042,874	1,527,134	132,232	42,362	49,495	3,710		
11	549,413	1,025,101	1,680,000	0	1,098,848	1,441,631	127,446	44,298	49,533	3,561		
12	407,054	958,503	1,536,000	0	872,287	1,406,214	91,204	44,715	49,663	3,517		
13	448,134	1,000,185	1,536,000	0	751,027	1,438,060	79,542	44,680	49,704	3,562		
14	502,478	963,009	1,536,000	0	770,198	1,411,819	81,708	43,144	49,770	3,587		
15	475,249	949,698	1,536,000	0	746,161	1,487,653	92,703	41,339	49,808	3,622		
16	419,796	948,680	1,536,000	0	726,109	1,490,890	72,805	41,457	49,763	3,466		
17	447,899	953,011	1,536,000	0	946,861	1,362,791	107,330	41,387	49,721	3,175		
18	308,948	950,867	1,536,000	0	902,026	1,428,934	110,251	40,860	49,756	3,513		
19	406,285	889,804	1,536,000	0	642,063	1,327,201	67,951	40,569	49,796	3,626		
20	337,172	946,731	1,536,000	0	748,791	1,360,948	87,001	32,763	37,075	3,672		
21	353,100	945,340	1,536,000	0	640,919	1,432,206	68,172	40,946	46,284	3,675		
22	477,586	948,559	1,536,000	0	641,509	1,400,659	70,512	44,453	50,079	3,678		
23	474,398	949,047	1,536,000	0	642,419	1,409,702	65,061	47,484	49,679	3,643		
24	393,977	948,159	1,536,000	0	844,084	1,309,788	95,635	49,061	49,583	3,615		
25	726,522	948,561	1,536,000	0	929,785	1,384,556	115,223	47,608	49,593	3,607		
26	461,198	949,722	1,536,000	0	928,483	1,489,363	115,661	44,044	49,574	3,613		
27	504,983	950,011	1,536,000	0	671,335	1,512,832	62,356	43,500	49,661	3,632		
28	406,562	949,577	1,536,000	0	578,562	1,461,031	48,707	42,925	49,610	3,627		
29	381,213	1,058,449	1,536,000	60,889	732,548	1,194,286	68,128	38,778	36,992	3,644		
30	503,830	900,785	1,536,000	115,324	621,435	1,559,614	63,906	54,749	46,646	3,648		
31	367,340	899,024	1,536,000	228,454	1,096,285	1,428,858	123,462	57,699	50,164	3,636		
Total	14,424,782	31,158,824	50,736,000	1,735,129	25,497,203	44,563,990	2,783,001	1,327,683	1,487,024	110,600		

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.